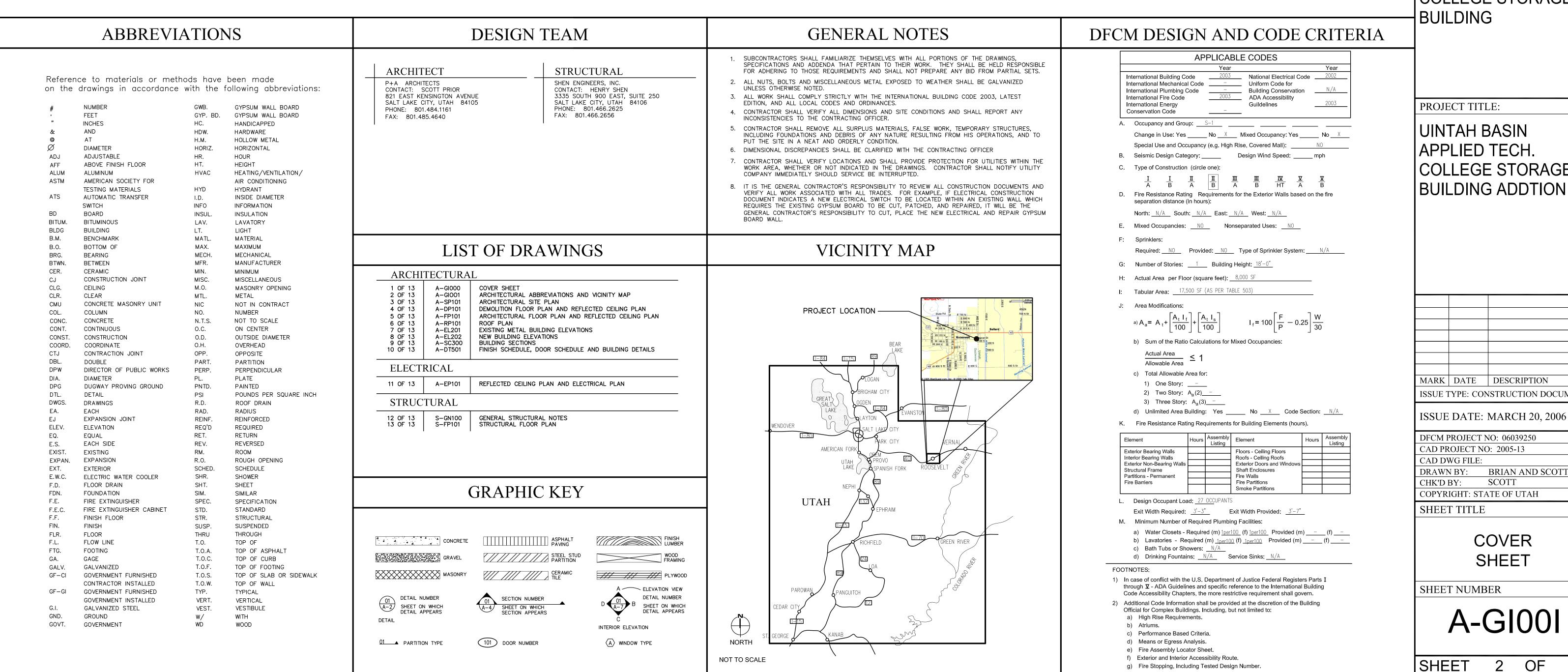
State of Utah Department of Administrative Services Division of Facilities UTAH COLLEGE OF APPLIED Fax: (801) 538 - 3267 TECHNOLOGY UINTAH BASIN ATC P+A architects 821 East Kensington Ave.
Salt Lake City, Utah 84105
P: 801.484.1161
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e-mail parchitects@comcast.net STORAGE BUILDING ADDITION DFCM PROJECT NO. 06039250 **BUILDING NAME:** STATE PROPERTY ID NO. UINTAH BASIN AREA VOCATIONAL 1100 E. Lagoon St. COLLEGE STORAGE C BUILDING Roosevelt, Utah 84066-3000 PROJECT TITLE: **UINTAH BASIN AREA** VOCATIONAL COLLEGE STORAGE **BUILDING ADDITION** MARK | DATE | DESCRIPTION State of Utah— Department of Administrative Services ISSUE DATE: MARCH 20, 2006 DFCM PROJECT NO: 06039250 DIVISION OF FACILITIES CONSTRUCTION CAD PROJECT NO: 2005-13 CAD DWG FILE: DRAWN BY: BRIAN & SCOTT AND MANAGEMENT SHEET TITLE 4110 State Office Building / Salt Lake City, Utah 84114 / 538-3018 COVER SHEET MARCH 20, 2006 SHEET NUMBER A-G1000 SHEET

UTAH COLLEGE OF APPLIED TECHNOLOGY UINTAH BASIN ATC

STORAGE BUILDING ADDITION

D.F.C.M. PROJECT NUMBER: 06039250

1100 East Lagoon St. Roosevelt, Utah 84066-3000



State of Utah

Department of Administrative Services



Division of Facilities Construction & Management 4110 State Office Building Salt Lake City, Utah 84114

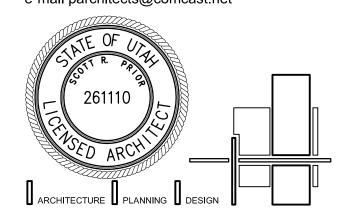
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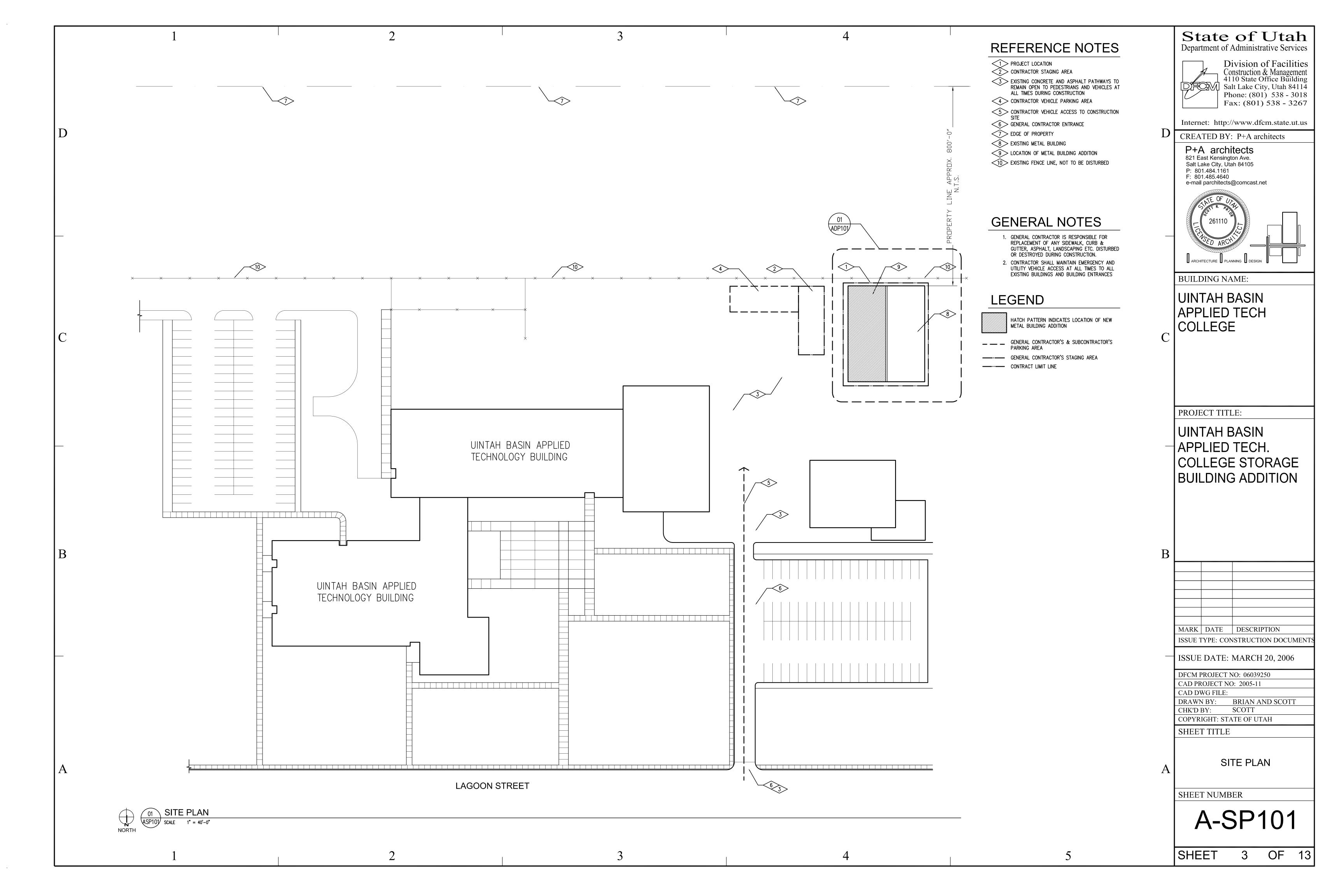
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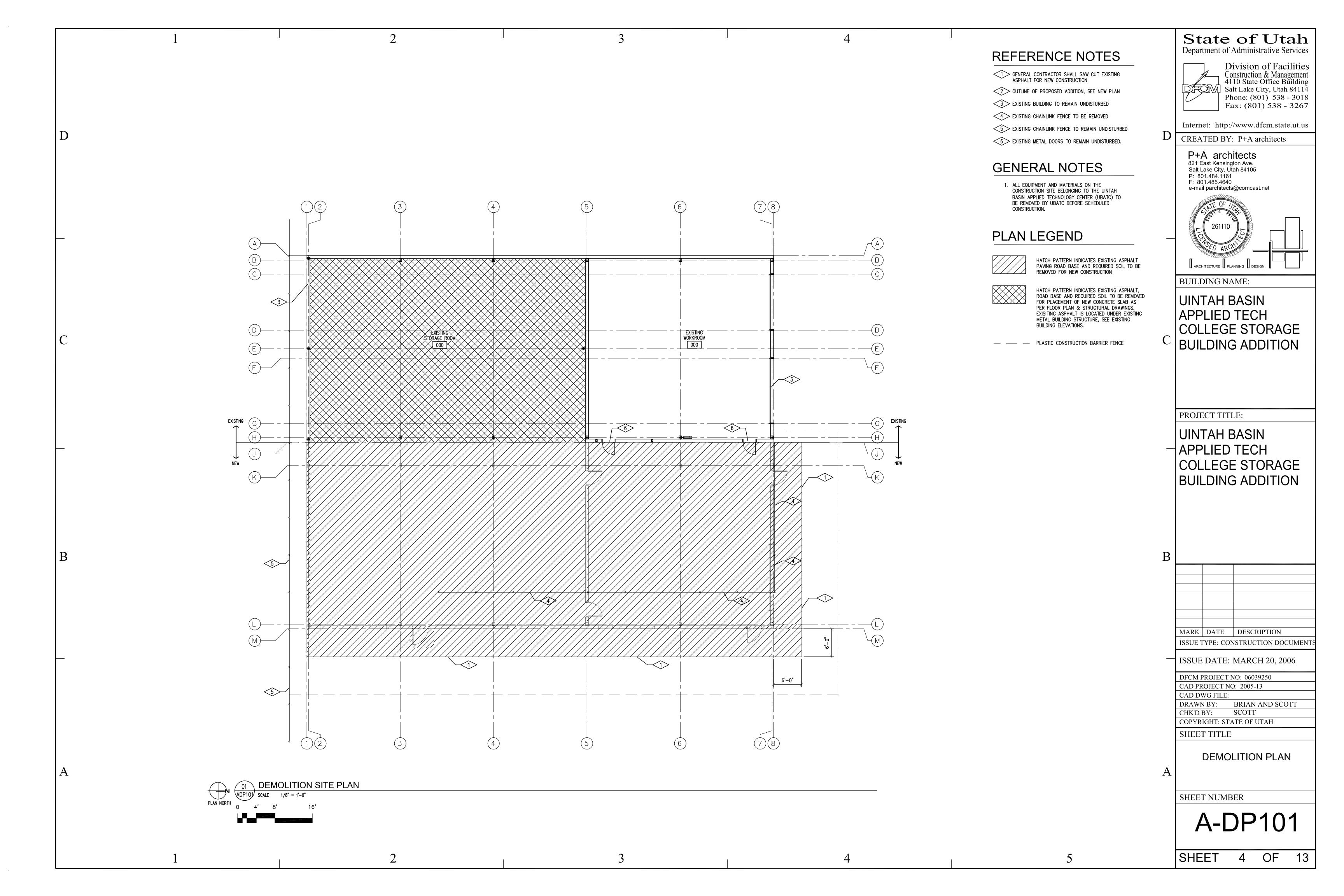
UINTAH BASIN APPLIED TECH. COLLEGE STORAGE

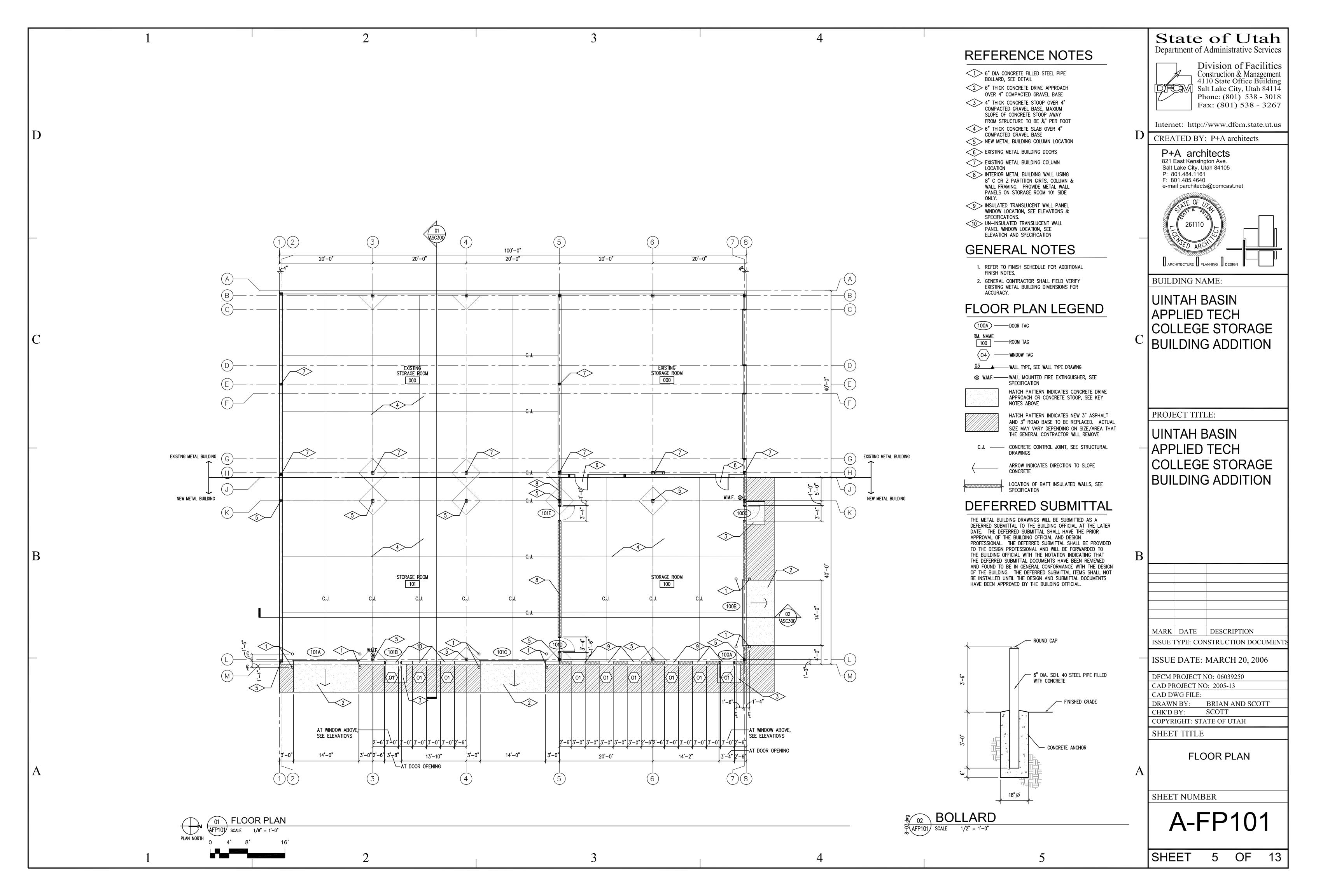
COLLEGE STORAGE

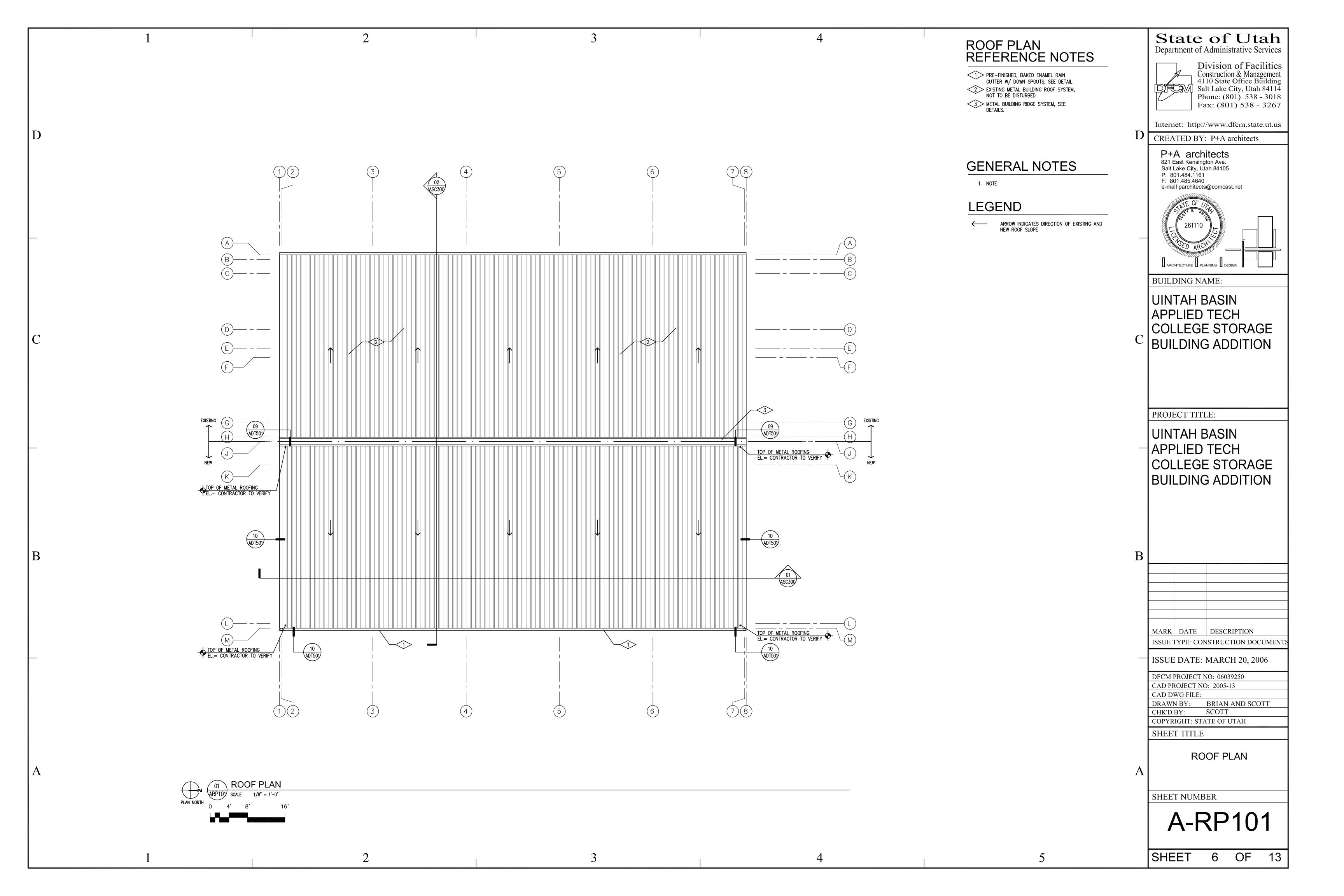
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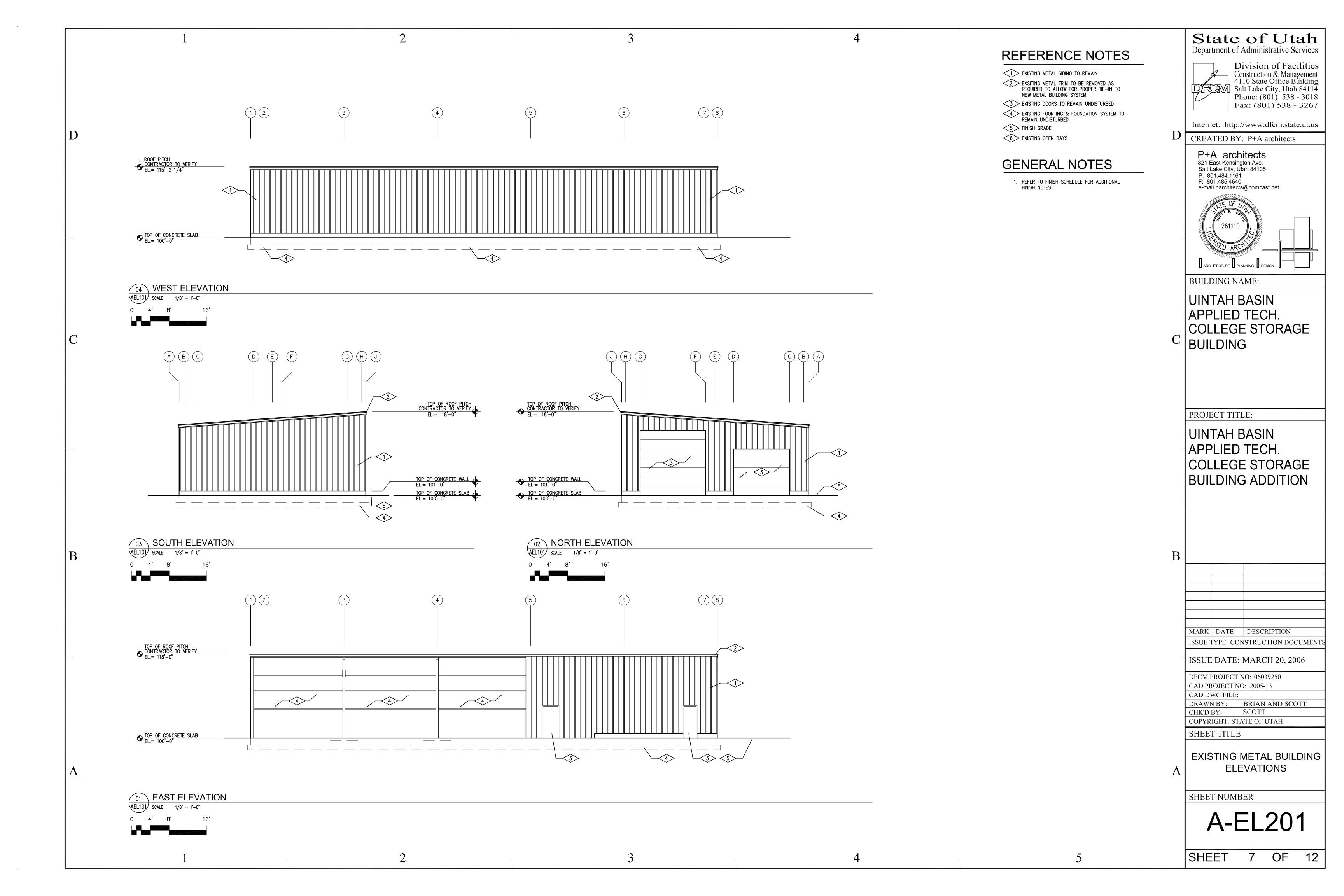
BRIAN AND SCOTT

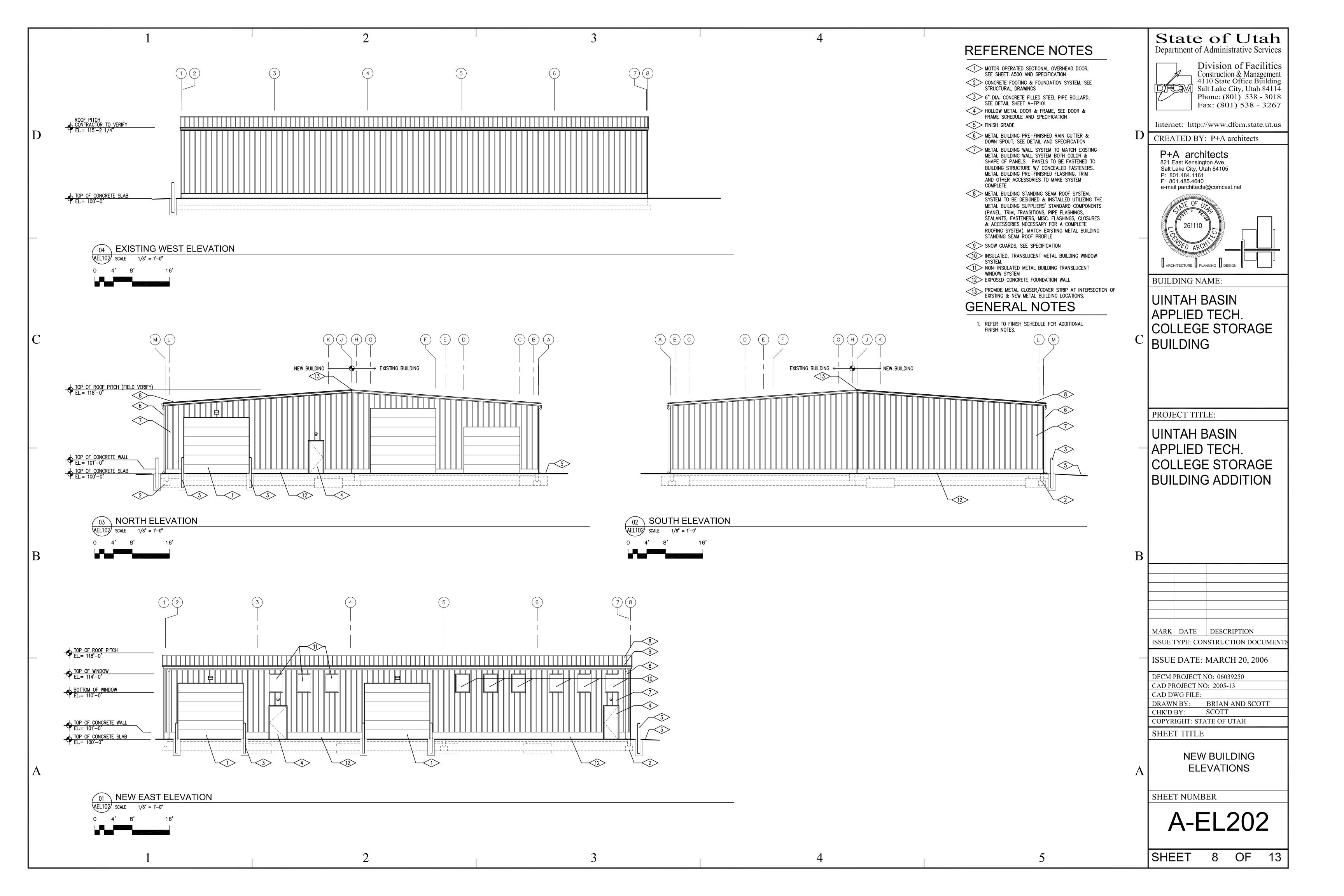


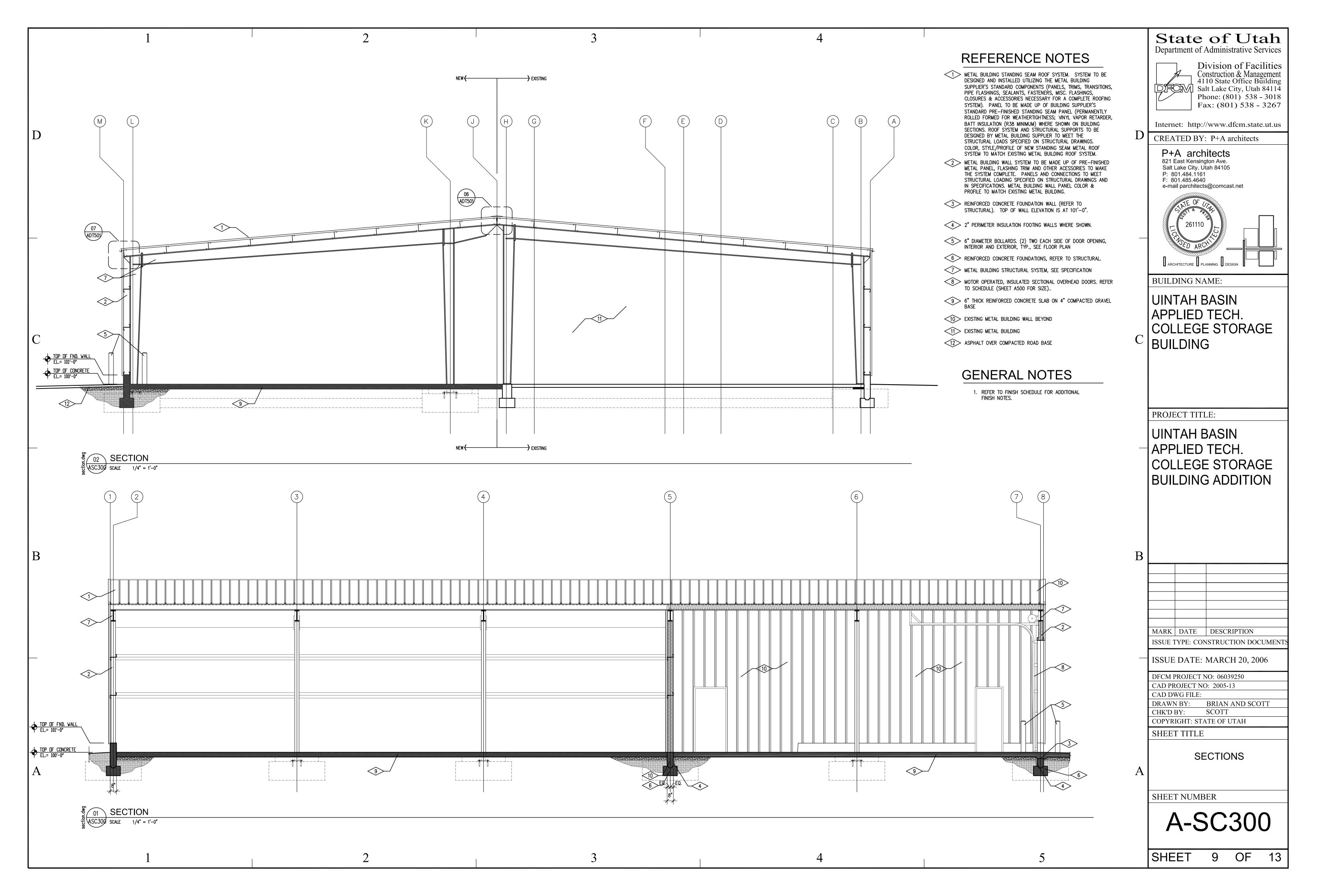


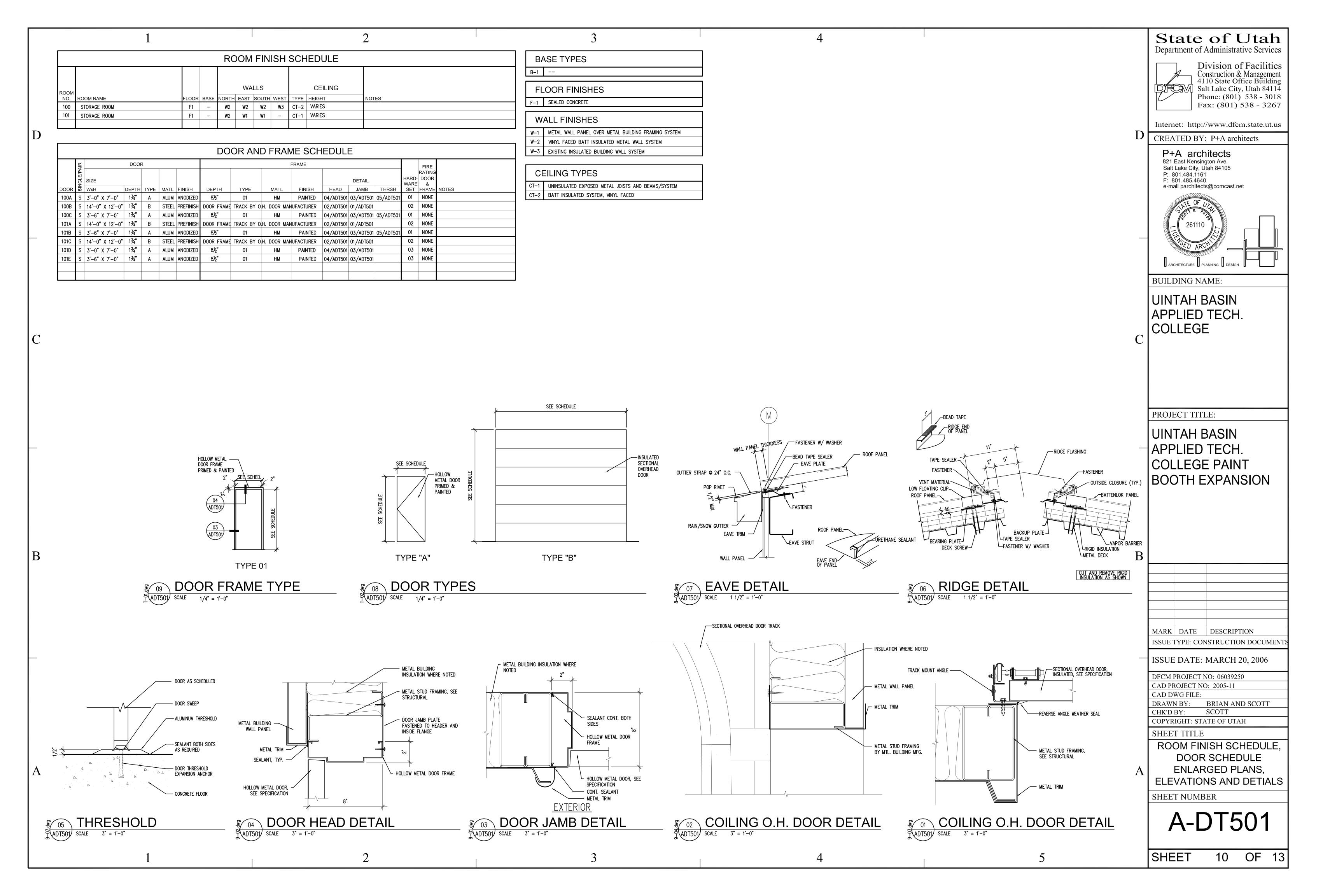










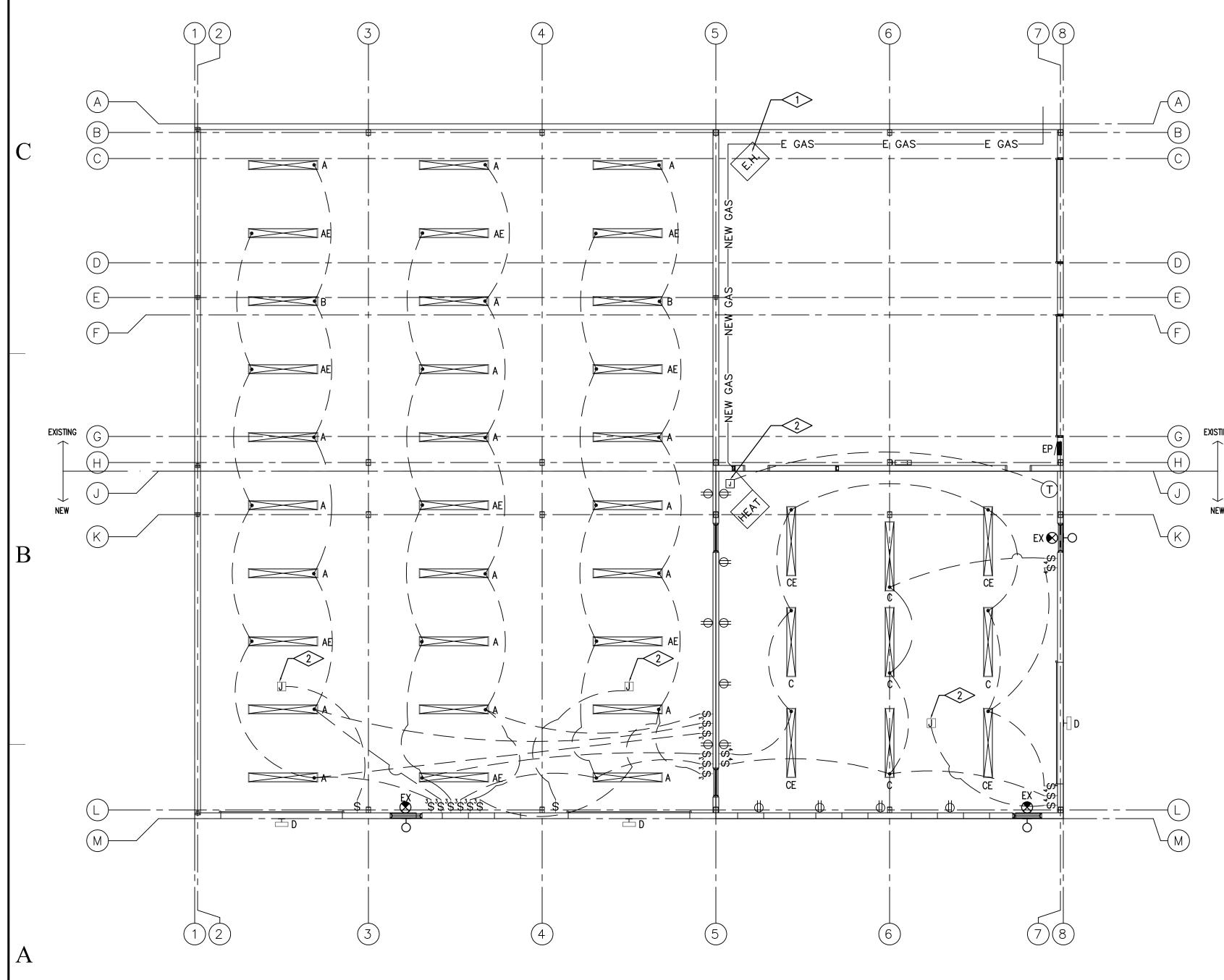


LIGHT FIXTURE SCHEDULE								
SYMBOL	TYPE	FIXTURE VOLTAGE	LAMPS # MANUFACTURER AND CAT. NO.					
A	A	VOLTAGE TO BE DETERMINED BY ELECTRICIAN	3	COLUMBIA LIGHTING, KL8-396HO - VOLTAGE TO BE DETERMINED BY ELECTRICIAN - KHC				
AE	AE	VOLTAGE TO BE DETERMINED BY ELECTRICIAN	3	COLUMBIA LIGHTING, KL8-396HO - VOLTAGE TO BE DETERMINED BY ELECTRICIAN - KHC-W/UFO-5W				
В	В	VOLTAGE TO BE DETERMINED BY ELECTRICIAN	3	COLUMBIA LIGHTING, KL8-396HO - VOLTAGE TO BE DETERMINED BY ELECTRICIAN - (2) BALLASTS - KHC				
C	С	VOLTAGE TO BE DETERMINED BY ELECTRICIAN	3	COLUMBIA LIGHTING, KL8-396-EB12 - VOLTAGE TO BE DETERMINED BY ELECTRICIAN - KHC				
CE	CE	VOLTAGE TO BE DETERMINED BY ELECTRICIAN	3	COLUMBIA LIGHTING, KL8-396-EB12 - VOLTAGE TO BE DETERMINED BY ELECTRICIAN - KHC-W/UFO-5W				
ı d ⊡	D	120 VOLT	METAL HALIDE	KIM LIGHTING, WD14-D3/175MH, VOLTAGE TO BE DETERMINED/DB-P, LIGHT FIXTURE TO BE PROVIDED W/ PHOTO CELL				
EX ⊗ HO	EX	120 VOLT	-	DUAL LITE, WITH REMOTE HEAD ON EXTERIOR, LTUGW3-OMSSB0605				

REFLECTED CEILING PLAN

PLAN NORTH

SYMBOL	DISCRIPTION	MOUNTING	NOTES
#	FOURPLEX RECEPTACLE	18" A.F.F.	
@	OCCUPANCY SENSOR	CEILING	
	DUPLEX RECEPTACLE	18" A.F.F.	
◁	TELEPHONE		
=	220V	18" A.F.F.	
\$	LIGHT SWITHCH		
\$ ³	3 WAY LIGHT SWITHCH		
\$ ⁴	4 WAY LIGHT SWITHCH		
⇒ _{A.F.C.I.}	ARC-FAULT CIRCUIT INTERRUPTER	18" A.F.F.	
⇒ _{G.F.I.}	GROUND FAULT INTERRUPTER CIRCUTS	18" A.F.F.	
O _{S.D.}	SMOKE DETECTOR		
EP/	EXISTING ELECTRICAL PANEL		



REFERENCE NOTES

<1> EXISTING GAS HEATER

1 IT IS THE ELECTRICIAN RESPONSIBILITY TO PROVIDE POWER TO JUNCTION BOX LOCATIONS AND CONNECT POWER TO O.H. DOOR AND UNIT HEATER

GENERAL NOTES

- 1. GENERAL CONTRACTOR SHALL REVIEW EXISTING VOLTAGE PRIOR TO BIDDING TO DETERMINE VOLTAGE REQUIREMENTS FOR LIGHTING.
- 2. ALL ELECTRICAL EQUIPMENT & LIGHTING IS SHOWN FOR SCHEMATIC PURPOSES ONLY. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE DESIGN BUILD ELECTRICAL USING EXISTING ELECTRICAL SYSTEMS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO HAVE THEIR ELECTRICAL SUBCONTRACTOR REVIEW THE PROJECT PRIOR TO BIDDING TO VERIFY EXISTING ELECTRICAL PANEL CAPACITY. IF THE EXISTING ELECTRICAL PANEL CAPACITY IS NOT ADEQUATE TO MEET THE NEED FOR THE ADDITIONAL LOADS, IT SHALL BE THE GENERAL CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL SERVICE AND PANELS TO MEET THE NEW LOAD REQUIREMENTS. ALL ELECTRICAL MUST MEET CURRENT NEC CRITERIA.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL NEW STROBE LIGHTS, SMOKE DETECTORS AND VERIFICATION OF FIRE ALARM PANELS. THESE ITEMS WILL BE INSTALLED AS PER THE D.F.C.M.'S REQUIREMENTS AND AS PER ALL ELECTRICAL, FIRE AND LIFE SAFETY CODE REQUIREMENTS IF REQUIRED
- THE GENERAL CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE THE REQUIRED EMERGENCY ILLUMINATION FOR THIS PROJECT AS REQUIRED BY ALL ELECTRICAL FIRE AND LIFE SAFETY CODES.

LEGEND

CEILING MOUNTED NATURAL GAS HEATER, MGF. MODINE, MODEL PD150AA011. GENERAL CONTRACTOR TO MOUNT TO STRUCTURE ABOVE. GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED VENTING THROUGH ROOF.

NATURAL GAS HEATER THERMOSTAT. THERMOSTAT TO BE SET FOR 55 F. MOUNT AT 4'-0" A.F.F.

NEW GAS — NEW GAS LINE, IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GAS LINE SIZE AND DETERMINE NEW GAS LINE SIZE BASED ON REQUIREMENTS OF NEW HEATER ABOVE.

EXISTING | E.H. | EXISTING GAS HEATER, NOT TO BE DISTURBED

E GAS — EXISTING GAS LINE. IT IS THE GENERAL CONTRACTOR RESPONSIBILITY TO VERIFY SIZE OF EXISTING GAS LINE TO DETERMINE IF SIZE IS ADEQUATE TO HANDLE CAPACITY INCREASE NEEDED FOR NEW NATURAL GAS HEATER AS SPECIFIED ABOVE. IF EXISTING GAS SERVICE/LINE IS NOT ADEQUATE FOR ADDITIONAL LOAD IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO UP GRADE SERVICE TO MEET NEW LOAD REQUIREMENTS.

DIVISION 16 ELECTRICAL

GENERAL REQUIREMENTS

GENERAL CONDITIONS: THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIAL CONDITIONS, ALTERNATES AND ADDENDA, APPLICABLE DRAWINGS AND TECHNICAL SPECIFICATIONS SHALL APPLY TO ALL WORK UNDER THIS DIVISION.

STATE LICENSED CONTRACTOR - THE CONTRACTOR SHALL HAVE A CURRENT STATE ELECTRICAL CONTRACTING LICENSE.

THE WORK COVERED BY THESE DOCUMENTS CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICES NECESSARY TO FILL THE INTENT AND PURPOSE OF THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. ITEMS OMITTED FROM EITHER THE DRAWINGS OR SPECIFICATIONS, BUT SHOWN OR DESCRIBED IN THE OTHER, AND/OR ALL ITEM NECESSARY MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL BE UNDERSTOOD TO FORM A PART OF THE WORK.

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE OF THE HIGHEST QUALITY, NEW AND MEET THE STANDARDS OF NEMA, IPCEA, LS, UL, NFPA, UBS, OSH, NEC, AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS AVAILABLE. WHERE MATERIALS AND EQUIPMENT ARE SPECIFIED BY MANUFACTURER'S NAME. THE TYPE AND QUALITY REQUIRED IS THEREBY DENOTED. THE ARCHITECT SHALL BE AFFORDED EVERY FACILITY DEEMED NECESSARY TO INSPECT AND EXAMINE THE MATERIALS AND APPARATUS BEING INSTALLED TO PROVE THEIR QUALITY, SKILL AND COMPETENCY OF

CODES— REGULATION AND PERMITS

IN THE INSTALLATION OF THIS WORK, COMPLY WITH THE REQUIREMENTS OF THE LAWS, ORDINANCES AND RULES OF THE STATE AND NATIONAL BOARD OF FIRE UNDERWRITERS, THE NATIONAL ELECTRICAL CODE, AND THE RULES AND REGULATIONS OF LOCAL ORDINANCES.

IF A CONFLICT OCCURS BETWEEN THESE RULES AND DOCUMENTS, THE RULES ARE TO GOVERN. THE CONTRACTOR ACCEPTS THIS RESPONSIBILITY UPON SUBMITTING HIS BID, AND NO EXTRA CHARGE WILL BE ALLOWED AFTER THE ELECTRICAL CONTRACT IS AWARDED. THIS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLYING WITH ANY REQUIREMENTS OF THE PLANS OR SPECIFICATIONS WHICH MAY BE IN EXCESS OF REQUIREMENTS OF THE HEREIN MENTIONED RULES AND NOT CONTRARY TO SAME. ALL MATERIALS AND EQUIPMENT INSTALLED, INCLUDING LIGHTING FIXTURES, SHALL HAVE BEEN TESTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BE SE LABELED, UNLESS OTHERWISE APPROVED BY THE

ARCHITECTURAL AND MECHANICAL DOCUMENTS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS INSOFAR AS THEY APPLY, AS IF REFERRED TO IN

SINCE THE DRAWINGS OF THE FLOOR AND CEILING INSTALLATION ARE MADE AT A SMALL SCALE, OUTLETS, DEVICES, EQUIPMENT, ETC., ARE INDICATED ONLY IN THEIR APPROXIMATE LOCATION, UNLESS DIMENSIONED. LOCATE OUTLETS AND APPARATUS SYMMETRICALLY ON FLOORS, WALL AND CEILING WHERE NOT DIMENSIONED, AND COORDINATE SUCH LOCATIONS WITH WORK OF OTHER TRADES TO PREVENT INTERFERENCES. ALL DIMENSIONS ON THE JOB SHALL BE VERIFIED. DO NOT SCALE THE ELECTRICAL DRAWINGS, BUT REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DIMENSIONS.

UPON COMPLETION OF THE INSTALLATION, FURNISH A SET OF "RECORD" DRAWINGS TO THE ARCHITECT CLEARLY MARKED WITH THE CHANGES AUTHORIZED DURING CONSTRUCTION. ALSO SUBMIT WARRANTIES, OPERATION AND MAINTENANCE DATA ON ALL ITEMS OF EQUIPMENT.

STORAGE AND PROTECTION OF MATERIALS

PROVIDE STORAGE SPACE FOR MATERIALS AND APPARATUS AND ASSUME COMPLETE RESPONSIBILITY FOR ALL LOSSES DUE TO ANY CAUSE WHATSOEVER. IN NO CASE SHALL STORAGE INTERFERE WITH TRAFFIC CONDITIONS IN ANY PUBLIC THOROUGHFARE OR CONSTITUTE A HAZARD TO PERSONS IN THE VICINITY. PROTECT COMPLETED WORK, WORK UNDERWAY, AND APPARATUS AGAINST LOSS OR DAMAGE.

SHOP DRAWINGS

SHOP OR DETAIL DRAWINGS SHALL BE SUBMITTED IN QUADRUPLE TO THE ARCHITECT PRIOR TO INSTALLATION OF ANY EQUIPMENT WHEN SHOP DRAWINGS ARE REQUIRED, AS HEREINAFTER SPECIFIED.

CONTRACTOR SHALL PREPARE AND SUBMIT ANY DETAIL DRAWINGS AT ANY TIME SUCH DRAWINGS ARE DEEMED NECESSARY BY THE ARCHITECT AND SHALL OBTAIN WRITTEN APPROVAL OF SAME BEFORE PROCEEDING WITH THE INSTALLATION OF THE WORK.

SHOP DRAWINGS SHALL BE SUBMITTED IN PROPERLY BOUND AND INDEXED BROCHURES. LIGHTING FIXTURE BROCHURE'S SHALL INCLUDE FIXTURE TYPE NUMBERS, MANUFACTURER, AND CATALOG NUMBERS. SPECIAL FEATURES NOT NORMALLY INCLUDED AS STANDARD, SHALL BE LABELED.

CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF THE PROJECT MANAGER OR HIS DESIGNATED REPRESENTATIVE, AND DEMONSTRATE ALL EQUIPMENT AS WORKING AND OPERATING. ALL GROUNDINGS, OPENS, SHORTS OR OTHER DEFECTS SHALL BE RECTIFIED AT NO EXTRA COST TO THE OWNER BEFORE ACCEPTANCE AND PAYMENT.

<u>GUARANTEE</u>

THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE LEFT IN PROPER WORKING ORDER AND BE IN COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS AND/OR AUTHORIZED CHANGES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. EXCEPTION: INCANDESCENT AND FLUORESCENT LAMPS, WHICH SHALL BE GUARANTEED FOR A PERIOD OF TWO MONTHS FROM ACCEPTANCE OF THE INSTALLATION BY THE OWNER OR HIS AGENT. A WRITTEN GUARANTEE COVERING THE ABOVE PROVISIONS SHALL BE SIGNED AND DELIVERED TO THE ARCHITECT AFTER THE PROJECT HAS FINAL ACCEPTANCE BY THE INSPECTING AUTHORITY.

TEMPORARY FACILITIES

PROVIDE, FOR USE OF OTHER TRADES DURING CONSTRUCTION PERIOD, REQUIRED TEMPORARY ELECTRICAL POWER, COMPLETE WITH REQUIRED MAIN BREAKER, SWITCH PANEL, METER, POLES, CONDUCTORS, ETC. SEE DIVISION 2.

AT COMPLETION OF WORK, OR WHEN SO ORDERED BY ARCHITECT OR CONTRACTOR, REMOVE FROM SITE ALL PARTS OF TEMPORARY ELECTRICAL SERVICES, LEAVING NO DISCERNIBLE SCARS. CONTRACTOR MAY CONNECT AND USE LIGHTING FIXTURES AS DESIGNATED BY ARCHITECT FOR LIGHTING DURING CONSTRUCTION. REPLACE BULBS AND OTHER PARTS OF LIGHTING FIXTURES DAMAGES OR BURNED OUT DURING SUCH USE AT COMPLETION OF WORK AT NO ADDITIONAL COST TO OWNER.

SYSTEM IS 120/240 VOLTS, SINGULAR PHASE, 3-WIRE, 60 Hz. G.C. TO VERIFY

<u>GROUNDING</u>

THE NEUTRAL CONDUCTOR AND CABINET, CONDUITS. APPLIANCES, EQUIPMENT, MOTOR FRAMES, AND MOTOR BASES, ETC., SHALL BE BONDED TO THE GROUNDING SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

ELECTRICAL METALLIC TUBING SHALL BE USED WHERE SIZES 4" AND SMALLER ARE REQUIRED, EXCEPT WHERE INSTALLED IN EARTH, CONCRETE SLABS ADJACENT TO EARTH, OR IN LOCATIONS WHERE SUBJECT TO MECHANICAL INJURY. IN ALL SUCH CASES, POLYVINYL CHLORIDE CONDUIT SHALL BE USED. TUBING MAY BE USED IN SLABS ABOVE GRADE LEVEL.

INTERMEDIATE METALLIC TUBING SYSTEMS SHALL UTILIZE RAIN TIGHT COMPRESSION CONNECTORS OR SET SCREW TYPE FITTINGS THROUGHOUT. CRIMPON INDENTER TYPE FITTINGS WILL NOT BE ACCEPTABLE. PRECAUTION SHALL BE EXERCISED TO PREVENT ACCUMULATION OF WATER, DIRT, OR CONCRETE IN THE CONDUITS DURING THE EXECUTION OF THE

CONDUITS IN WHICH WATER OR FOREIGN MATTER HAS BEEN PERMITTED TO ACCUMULATE SHALL BE THOROUGHLY CLEANED OR THE CONDUIT RUNS REPLACED WHERE SUCH ACCUMULATION CANNOT BE REMOVED BY METHODS APPROVED BY THE ARCHITECT. NO WIRE SHALL BE INSTALLED UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO THE WIRE OR CONDUIT HAD BEEN COMPLETED. CONDUIT WHICH HAS BEEN CRUSHED OR DEFORMED IN ANY MANNER SHALL NOT BE INSTALLED. CONDUIT RUNS SHALL BE KEPT A MINIMUM DISTANCE OF 6 INCHES FROM HOT WATER AND STEAM PIPES.

CONDUIT, TUBING, AND BOXES SHALL BE SUPPORTED IN AN APPROVED MANNER BY MEANS OF EXPANSION SHIELDS OR EMBEDDED SUPPORTS IN CONCRETE OR SOLID MASONRY, TOGGLE BOLTS ON HOLLOW MASONRY UNITS, WOOD SCREWS ON WOOD AND METAL SCREWS ON METAL. WOODEN PLUGS INSERTED IN CONCRETE OR MASONRY UNITS SHALL NOT BE USED AS A BASE FOR FASTENING CONDUITS, TUBING, BOXES, CABINETS, ETC.

ALL RACEWAYS 3/4" AND LARGER SHALL UTILIZE OZ TYPE "A" INSULATING BRUSHING AT CABINET AND OUTLETS.

RACEWAY ENTERING OUTLETS OF CABINETS SHALL HAVE DOUBLE LOCK NUTS APPLIED FOR GROUNDING PURPOSES AND THEN INSULATING BRUSHING APPLIED OVER LOCK NUT.

ALL EMPTY CONDUITS SHALL HAVE A 200 POUND NYLON PULL WIRE.

<u>CONDUCTORS</u>

CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS, UNLESS NOTED OTHERWISE, SHALL BE COPPER. INSULATION SHALL BE TYPE THW. NEUTRAL CONDUCTORS SHALL BE THE SIZES INDICATED ON THE RISER DIAGRAM. SIZES SMALLER THAN #12 AWG SHALL NOTE BE USED IN BRANCH CIRCUITS. SIZES #8 AND LARGER SHALL BE STANDARD.

PHASE A - BLACK PHASE B - RED NEUTRAL - WHITE GROUND - GREEN

State of Utah

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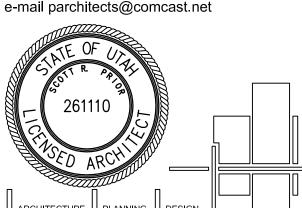
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BUILDING NAME:

UINTAH BASIN APPLIED TECH COLLEGE STORAGE BUILDING

PROJECT TITLE:

UINTAH BASIN APPLIED TECH COLLEGE STORAGE **BUILDING ADDITION**

MARK | DATE | DESCRIPTION ISSUE TYPE: CONSTRUCTION DOCUMENT

ISSUE DATE: MARCH 20, 2006

DFCM PROJECT NO: 06039250 CAD PROJECT NO: 2005-13 CAD DWG FILE:

DRAWN BY: BRIAN AND SCOTT CHK'D BY: SCOTT COPYRIGHT: STATE OF UTAH

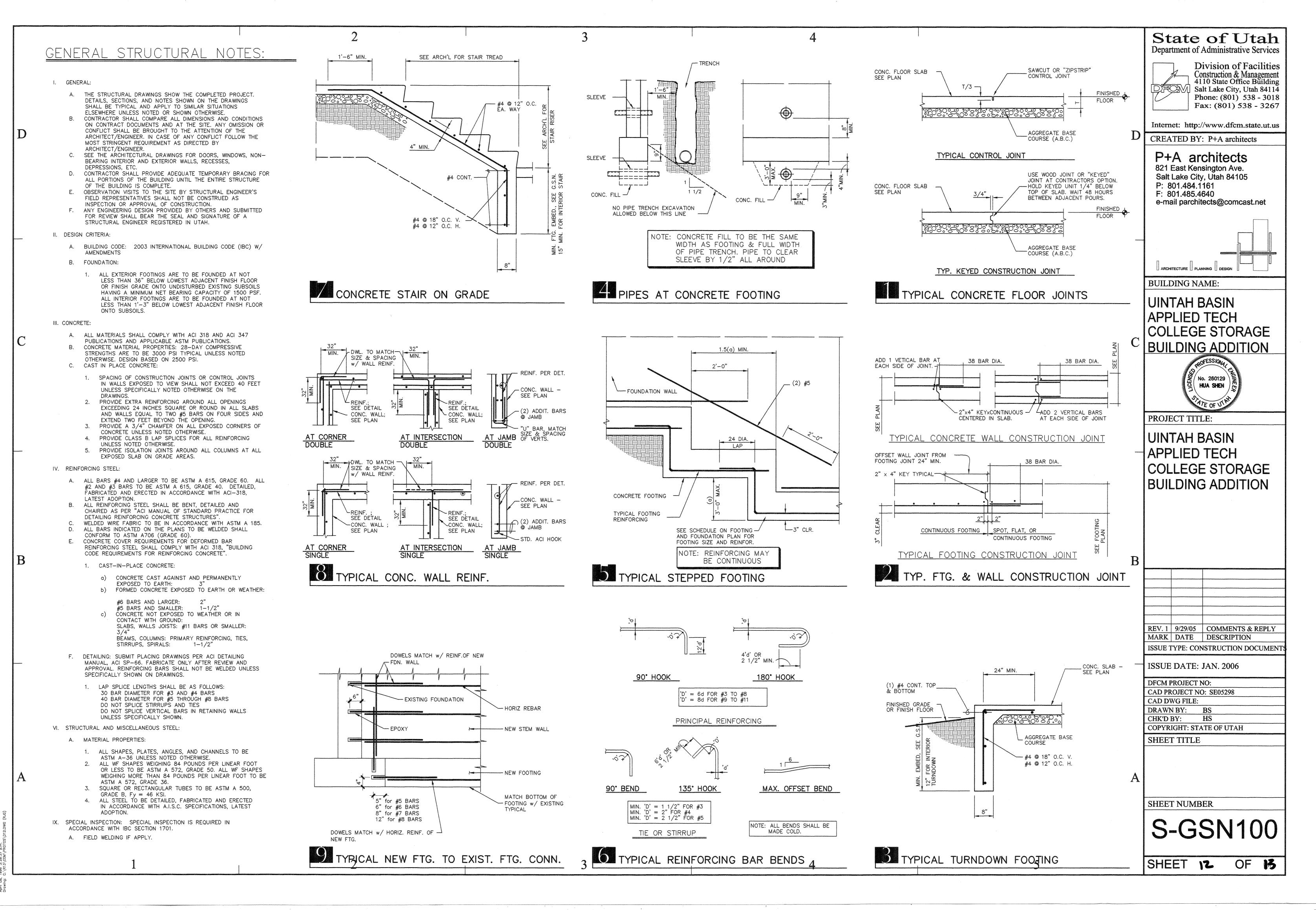
SHEET TITLE

REFLECTED CEILING PLAN & ELECTRICAL FLOOR PLAN AND MECHANICAL PLAN

SHEET NUMBER

A-EP101

11 OF SHEET



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